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A Bibliography on Range, Forages and Livestock Management in British Columbia

by

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ABSTRACT

British Columbia literature regarding range, forage and livestock management is presented in a structured bibliography as a tool for locating information easily within topic areas. A topical outline is provided indicating the subject areas contained within sections.

Keywords: bibliography, range, forage, livestock, British Columbia.

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INTRODUCTION

This bibliography resulted from a review of range and forage literature in British Columbia that was compiled to summarize past research on range and livestock management in the province prior to 1982. Very early it became apparent that a large body of literature relating to range ecology and management, livestock, and forages had been published in British Columbia but was largely unavailable and scattered throughout the province. This work attempts to consolidate this literature into one comprehensive source. It is designed for use by resource managers, scientists, teachers, students, livestock producers, agri-business and the general public.

Scope and Contents

The livestock industry in British Columbia is broadly based. Range management is closely linked to management and agronomic practices on private land and, at the same time, often interacts with other resource uses because such a large proportion of Crown range occurs on the forest land base. Citations selected for entry into the bibliography reflect the extensive nature of range and livestock management in the province. Entries include literature pertaining to animal husbandry, animal health, agronomy, agricultural engineering, economics and agri-business, ecology of natural ecosystems, and wildlife ecology where range use by domestic livestock and native fauna overlap.

As suggested in the title, citations compiled for the bibliography were restricted to those relating directly to British Columbia. Literature originating in British Columbia but describing or reporting results from work conducted outside the province were excluded. Similarly, the wealth of literature available from the American Pacific Northwest that is relevant to British Columbia range types was not included. This was adequately summarized and documented in the excellent bibliography compiled by Vallentine (1978).

Under current legislation in British Columbia, range could be defined, in the broadest sense, to include all forage-producing Crown land in the province for both domestic livestock and wildlife (Ministry of Forests 1979). However, for the purpose of this bibliography, only literature relating to those areas presently utilized for domestic grazing by livestock on Crown land, and to livestock and forage production on private land are included.

Bibliographic entries vary from topical articles to graduate theses and scientific publications. Qualitative assessment of individual articles are left entirely to the discretion of the user.

Classification and Bibliographic Style

Approximately 1390 citations were compiled and reviewed for inclusion in the bibliography. Each entry was classified under 8 primary, 24 secondary and 4 tertiary categories similar to those developed by Vallentine (1978). Numerous articles and theses, which contained information on a variety of topics, were cross-referenced and appear in two or more sections. Each citation is sequentially numbered irrespective of the number of times cross-referenced articles are listed.

Subject headings and terminology used throughout the text were based upon the "USDA Forestry Controlled Vocabulary" (1976) and *A Glossary of Terms Used in Range Management* (Kothmann 1974) where possible. Definitions, or the use of selected keywords listed in the subject index, are described in Appendix 10a. Author names and titles were reported exactly as printed in the cited publication and all authors are listed on papers with multiple authors.

All abbreviations for journals, government agencies, universities and others that were used in the text and their complete forms are listed in Appendix 10b. Appendix 10c contains the bibliographic sources that were searched for relevant material.

Suggestions For Use

To locate bibliographic entries users should scan the topical outline and determine the appropriate category of interest. Keywords are provided to further define the contents of each section. Individual citations are listed alphabetically by author within each category.

The subject index in Appendix 10d permits the user to locate articles on additional topics not contained in the topical outline. Citation numbers listed in the subject index only refer to the first occurrence of that article in the text regardless of the section within which it might be expected to occur based upon keywords. Scientific names for plant and animal species were excluded from the subject index but these are listed in Appendix 10e. Appendix 10f contains an author index to assist users in locating articles by individual authors quickly and easily. Citation numbers in the author index only refer to the first occurrence of the article in the text.

Although the editors endeavored to be thorough and complete in compiling this bibliography, some relevant literature may have been omitted unintentionally. Users aware of further relevant material, uncited here, or encountering errors throughout the text, are invited to contact the editors.

TOPICAL OUTLINE

1. Range Ecosystem Structure and Function 1
   1a. Abiotic Factors (includes climate, erosion, hydrology, nutrient cycling, soil fertility, soil moisture, soil morphology, soil physical properties and soil temperature) 1
   1b. Autecology (includes allelopathy, competition, plant phenology, and plant vigor) 8
   1c. Synecology (includes plant species composition and cover, and plant succession) 11
   1d. Floras (also includes taxonomic studies on individual plant species) 16
   1e. Plant Anatomy and Physiology (includes structure and processes in native and domestic forage plants, and how abiotic and biotic factors affect both) 19

2. Range Resources, Research and Education 21
   2a. Range Inventory, Classification and Monitoring (also includes land capability, range condition and trend, inventory methodology, and remote sensing) 21
   2b. Research and Education (also includes research methods, and simulation modeling) 27

3. Livestock Production and Management 30
   3a. Livestock Management (also includes animal behavior, grazing systems, marking, livestock diet, livestock distribution and livestock equipment) 30
   3b. Breeding and Genetics (also includes artificial insemination, progeny testing, economic aspects of breeding, and marketing) 33
   3c. Feeds, Growth and Production (also includes growth hormones and hormonal implants, and livestock nutritional requirements) 34
   3d. Diseases and Animal Health (includes specific ailments such as bloat, scours, shipping fever and pulmonary emphysema as well as diseases resulting from animal pathogens) 39

4. Forage Production and Management 43
   4a. Range and Community Pasture (includes production, quality and utilization of forage and browse, carrying capacity, community pasture renovation, and establishment and harvesting of grass and legume hay on Crown land) 43
   4b. Cropland and Cultivated Pasture (also includes management practices such as irrigation, fertilization, pasture renovation and forage equipment) 49
      4b1. Plant Genetics and Breeding (includes variety and forage breeding for specific attributes such as winter hardiness, yield and forage quality) 52
      4b2. Forage Seeding, Establishment and Harvesting (includes seeding methods, stand establishment, companion crops, inoculation and nitrogen fixation in legumes, harvesting methods, and the use and storage of hays, silage and soilage) 53
      4b3. Forage Value and Utilization (includes carrying capacity, forage production, quality and utilization) 57
   4c. Range and Pasture Improvement (includes brush control, drainage, range improvement equipment, erosion control, fencing, fertilization, fire, predator control, site preparation, seeding, water development, and biological, chemical, cultural and mechanical control of weeds) 61
   4d. Noxious — Poisonous Plants (includes biology, life history, ecology and control) 68

5. Range Entomology and Pathology 72
   5a. Livestock Pests and Control (includes the biology and life history of livestock pests, specific livestock health problems associated with different insects and pathogens, and control methods) 72
   5b. Forage Pests and Control (includes the biology and life history of forage pests, the effects of different species of phytophagous insects and pathogens on plant health and growth, and control methods) 73

6. Range Wildlife 76
   6a. Big Game (includes animal behavior, diet, ecology, habitat and habitat management, distribution, and game ranching) 76
   6b. Non-Game (includes animal behavior, diet, ecology, habitat, distribution, and pest control) 79

7. Range Planning, Policy and Administration 80
7a. Farm Management and Economics (includes farm business, forage and livestock economics, and marketing) 80
7b. Integrated Resources (includes range administration and policy, multiple use, and interactions between range and forestry, mining, recreation or wildlife) 85

8. Range Ecosystem Miscellany 91
8a. Historical and General (includes general treatises on the history of range and agriculture in B.C., and bibliographies on aspects of range, forage and livestock ecology and management) 91
8b. Conferences, Proceedings, Symposiums, Workshops 92
8b1. Stockmen's Conferences (includes all Stockmen's conferences in chronological order) 92
8c. Soil Surveys 93

RANGE ECOSYSTEM STRUCTURE AND FUNCTION

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RANGE PLANNING, POLICY AND ADMINISTRATION

7a. Farm Management and Economics

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APPENDIX 10 A

Definitions and Usage of Selected Keywords

Administration-Policies and management regimes as they affect range, livestock, wildlife, forestry, mining, reclamation, land management, tenure , and multiple use.

Allelopathy — The suppression of growth, establishment and development of one species through release of inhibitory compounds by another species.

Alpine — Areas found above timberline characterized by low temperatures, high winds, and a short growing season.

Animal behavior — The response of animals to stimuli and the way in which they interact with each other and their environment (Campbell and Lasley 1969).

Bibliography — A list of writings relating to a particular subject.

Big game — Undomesticated large mammals considered collectively, including bear, caribou, coyote, cougar, deer, elk, goat, moose, sheep, and wolf.

Biological control — Artificial control of pests and parasites with the use of other organisms (Abercrombie *et al.* 1978).

Bloat — A disorder of ruminants characterized by an accumulation of gas in the rumen (Campbell and Lasley 1969).

Breeding — Propagation of plants or animals.

Browse — That part of leaf and twig growth of shrubs, woody vines, and trees available for animal consumption (Kothmann 1974).

Brush control — The reduction of brush to reduce its competition with more desirable species for space, moisture, light, and nutrients (Kothmann 1974).

Carrying capacity — The maximum stocking rate possible without inducing damage to vegetation or related resources (Kothmann 1974).

Chemical control — Use of herbicides to control undesirable range plants (Vallentine 1974).

Classification — A systematic arrangement of abiotic and biotic individuals or groups into categories based on common natural or artificial characteristics.

Climate — Average weather conditions of a place over numerous years (Kothmann 1974) and specific weather processes including precipitation, relative humidity, solar radiation, temperature, and wind.

Community pastures — Crown land that is developed into pasture but managed extensively as rangeland and is often used in common by more than one operator for the purpose of livestock production.

Condition and trend — The current productivity of a range relative to what that range is naturally capable of producing and the direction of change in range condition (Kothmann 1974).

Cropland — Land used primarily for production of cultivated crops (Kothmann 1974).

Cultural control — Manual removal of undesirable plants.

Diet — Forage species utilized by domestic livestock and wildlife under freeranging conditions. (Listed as "livestock diet" and "wildlife diet").

Distribution — Control of grazing livestock by means of fencing, salting, riding, water, and trail development, seeding , and fertilizing to improve range utilization (Stoddart *et al.* 1975). (Listed as "livestock distribution").

Drainage — Methods and processes of controlling surplus water.

Economics — The study, description, and analysis of the production, distribution, and consumption of livestock and forages, including cost/benefit analysis, economic cycles, and financial planning. (Listed as "forage economics" and "livestock economics".)

Equipment — Machinery and systems used in producing, handling and storing cultivated forages, and in livestock production. (Listed as "forage equipment", "livestock equipment", and "range improvement equipment").

Erosion — Detachment and movement of soil and rock by gravity, water, wind, ice, and other processes (Kothmann 1974).

Feed — Harvested forages, grains, and other processed food for livestock or game (Kothmann 1974). Also includes silage and mineral supplementation.

Fencing — A range improvement method to control grazing and livestock distribution (Vallentine 1974). Also includes development of new technology.

Fertilization — The artificial addition of nutrients to the ecosystem to provide adequate levels and the proper balance of nutrients for plant growth (Vallentine 1974).

Fire — The effects of wildfires, controlled or prescribed burns on range plant species composition, plant root systems, and soils.

Flora — A list of plant species of a particular area arranged in families and genera (Abercrombie *et al.* 1978).

Forage — All browse and herbaceous foods that are available to grazing animals. It may be grazed or harvested for feeding (Kothmann 1974).

Forage production — The weight of forage that is produced within in a designated period of time on a given area (Kothmann 1974).

Forage quality — Characteristics that make forage valuable to animals as a source of nutients (Heath *et al.* 1973). Also includes "antiquality" factors that may make forage unacceptable for livestock.

Forest — Areas on which the dominant vegetation is trees. Also includes cutover timber areas used for grazing.

Genetics — The study of heredity and variation, and of resemblances and differences between organisms (Abercrombie et al. 1978). Also includes cytological studies, heritability estimates, breeding, and reproduction. (Listed as "forage genetics" and "livestock genetics").

Grassland — Land on which grasses are the dominant plant cover (Kothmann 1974).

Grazing systems — Grazing management which defines systematically recurring periods of deferment and grazing for two or more pastures or management units (Kothmann 1974).

Habitat — The natural abode of a plant or animal, including all biotic, climatic, and edaphic factors affecting life (Kothmann 1974).

Harvesting — The process of gathering in a crop.

Hay — Harvested forages that are dried and used for feeding domestic livestock (Campbell and Lasley 1969).

History — Articles discussing the history of range in British Columbia.

Hydrology — The study of water cycling on rangeland including: precipitation, interception, stem flow, throughfall, infiltration, runoff, erosion, and transpiration (Branson *et al.* 1972).

Inoculation — The addition of rhizobia to legume seed prior to planting which promotes nitrogen fixation.

Inventory — An itemized list of resources within a management area such as range sites, range condition and trend, range use, carrying capacity, physical developments, and natural conditions obstructing animal distribution and use.

Irrigation — Application of water to crops.

Land capability — The effect of physical land conditions, including climate, on the total suitability for use without damage for crops that require tillage, for grazing, for woodland, and for wildlife (Kothmann 1974). Inludes agricultural capability, range capability, and resource capability.

Land development — Methods of developing native plant communities for agriculture production.

Landform — Description of the natural landscape based upon both parent materials and surface expression. (Canadian Soil Survey Committee 1978).

Livestock — Domestic animals kept for production of meat, milk, wool or work (Campbell and Lasley 1969).

Livestock health — Disease, defects, toxicities, and deficiencies contributing to reductions in animal production, and treatment methods.

Livestock production — The weight, number of animal, etc., that a particular range, tame pasture or management system produces. The business of producing livestock (Kothmann 1974).

Marketing — The process of pricing, buying, and selling livestock and forage.

Marking — Tags, brands, and markings which are used to designate ownership of livestock.

Mechanical Control — Physical methods of controlling range plants with machinery including bulldozing, plowing, harrowing, chaining, railing, mowing, and beating (Vallentine 1974).

Multiple use — Harmonious use of range for more than one purpose such as grazing, forestry, livestock, wildlife, watershed management, recreation, and mining (Kothmann 1974).

Nitrogen fixation — Conversion of atmospheric nitrogen to organic nitrogen compounds by certain soil bacteria and blue — green algae (Abercrombie *et al.* 1978).

Nodulation — The formation of tubercles, particularly those formed on legume roots by the symbiotic nitrogen fixing bacteria in the genus *Rhizobium* (Heath et al. 1973).

Noxious plants — Undesirable plant species that interfere with management objectives on native range or in domestic crops (Kothmann 1974).

Nutrient cycling — The process whereby chemical elements circulate between compartments of the ecosystem in response to biotic activities (Charley 1977).

Nutritional requirements — The necessary protein, fats, carbohydrates, minerals, and vitamins which contribute to the maintenance of body processes, growth, and development.

Pasture — A grazing area enclosed and separated from other areas by fence (Kothmann 1974).

Pasture renovation — The improvement of an area by partial or complete destruction of a sod plus liming, fertilization, seeding, and weed control as may be required to establish desirable forage plants (Heath *et al.* 1973).

Pathogens — Disease producing microorganisms or viruses (Campbell and Lasley 1969).

Pest control — Control of unwanted organisms by biological or chemical means, or through through management practises.

Phenology — Periodic biological phenomenon such as flowering and seeding, especially as related to climate (Kothmann 1974).

Plant anatomy and physiology — Functions, processes, and morphology of native or domestic forage.

Plant autecology — Ecology of individual plant species in their environment (Abercrombie et al. 1978).

Plant cover — The combined aerial parts of plants and mulch (Kothmann 1974).

Plant species composition — The proportions of plant species in relation to the total on a given area (Kothmann 1974).

Plant succession — The process of vegetational development whereby an area becomes successively occupied by different plant communities of higher ecological order (Kothmann 1974).

Plant synecology — A subdivision of ecology that deals with the study of groups of plant species association as a unit such as communities (Kothmann 1974).

Plant taxonomy — The classification of plants according to their resemblances and differences (Abercrombie *et al.* 1978).

Plant vigor — Active, healthy plant growth as estimated by basal area, numbers of tillers produced numbers of seed stalks, seed viability, and inflorescence length.

Poisonous plants — Plant species which produce or accumulate substances toxic to animals (Kothmann 1974).

Policy — A method of action selected from alternatives which guide and determine present and future decisions.

Predation — The act of any animal, including insects, preying upon and eating other animals (Campbell and Lasley 1969).

Predator control — Artificial control of predators with hunting, trapping, poisoning, habitat manipulation or chemosterilants.

Range — Areas that preclude intensive crop production because of limiting soil, moisture, topography or economic factors which are used for grazing or browsing and which support an understory or periodic cover of herbaceous or shrubby vegetation amenable to certain range management principles and practises (Kothmann 1974).

Range-forestry interaction — The combined use of land for both domestic grazing and forest production. Also includes grass-tree competition, forest regeneration, seeding, and fertilization of forest range, and grazing systems on the forestland base.

Range-mining interaction — Combined use of land for both domestic grazing and mining. Includes the effects of mining on range and wildlife, and reclamation studies.

Range-recreation interaction — Combined use of land for both domestic grazing and recreational activities.

Range-wildlife interaction — Combined use of land for both domestic grazing and wildlife. Includes competition for food and space, range evaluations, and animal behavior.

Remote sensing — Aerial photography of the earth's surface (Kothmann 1974) including photo-interpretation methods used for classifying and mapping vegetation.

Research — Investigation or experimentation aimed at the discovery and interpretation of facts, revision of accepted theories or laws in the light of facts, or practical application of new or revised theories or laws.

Research methods — Experimental designs, sampling methodology methods used in data collection, and discussions of special equipment designed or used in research projects.

Scours — A persistent diarrhea (Campbell and Lasley 1969).

Seeding — Methods of seedbed preparation and planting used in domestic forage crop production, including seed production and seeding mixtures.

Silage — Forage preserved in a succulent condition by partial fermentation (Heath *et al.* 1973).

Simulation modeling — Scientific papers that deal with systems of postulates, data, and inferences which are described mathematically.

Site preparation — Prescribed treatments used to produce a suitable seedbed for seeding forage plant species on forested range including: scarification, windrowing, slash removal, burning, and weed control.

Soil fertility — The amount and availability of elements, nutrient cycles and chemical characteristics of a soil. Also includes soil analysis.

Soil moisture — Water relations within the soil profile including infiltration, retention, percolation, and discharge.

Soil morphology — The constitution of horizons within a soil profile including color, consistency, texture, and structure (Brady 1974).

Soil physical properties — Bulk density, porosity, pore size, and distribution, water retention, and hydraulic conductivity of soil (Brady 1974).

Soil survey and classification — The description and classification of soil in a given area, including physiographic divisions, soil mapping, and landforms (Canada Department of Agriculture 1976).

Soilage — Mechanically harvested forage fed to livestock while it is fresh and succulent (Heath *et al.* 1973).

Stand establishment — Establishment of a mixture of plants growing together on a contiguous area.

Storage — The act of storing forage for later use. Also includes methods of storage, chemical additives to retain quality and retard degradation.

Utilization — The proportion of the current year's forage production that is consumed or destroyed by grazing animals (Kothmann 1974). (Listed as "forage utilization").

Water development — Methods and construction of devices to capture, store and distribute water for animal use.

Weed control — Control of undesirable plant species by mechanical, chemical or biological means, or through management practises such as prescribed burning or special grazing systems.

Wetland — Lands that are wet enough, or inundated frequently enough, to develop and support a distinctive natural vegetative cover that is in strong contrast to the adjacent matrix of better drained lands (Runka and Lewis 1981).

APPENDIX 10 B

List of Abbreviations

1. Abbreviated Words

Abstr. — Abstract
Agric. — Agricultural, Agriculture
Agron. — Agronomist, Agronomists, Agronomy
Alta. — Alberta
Amer. — American
Anal. — Analysis
Anim. — Animal
Ann. — Annual
Anthropol. — Anthropological
Apic. — Apicultural
Appl. — Applied
Assoc. — Association
Auth. — Authority
Biol. — Biology
Bot. — Botany
Br. — Branch
Brit. — British
Bull. — Bulletin
Can. — Canada, Canadian
Chron. — Chronicles
Cir. — Circular
Class. — Classification
Co. — Company
Comm. — Commerce, Commission, Committee
Comp. — Comparative
Conf. — Conference
Cong. — Congress
Cons. — Conservation
Cont. — Control
Cytol. — Cytology
Dept. — Department
Devel. — Development
Div. — Division
Ecol. — Ecological, Ecology
Econ. — Economic, Economics
ed. — Edition
Eng. — Engineering
Entomol. — Entomological, Entomologist, Entomology
Env. — Environment, Environmental, Environments
Equip. — Equipment
Expan. — Expansion
Expt. — Experiment
Exten. — Extension
Fac. — Faculty
Feb. — February
Fed. — Federation
Fert. — Fertilization
Fin. — Finance
For. — Forest, Forestry, Forests
Genet. — Genetics
Geogr. — Geographer, Geographical
Geol. — Geological
Govt. — Government
Hand. — Handbook
Hist. — Historical, History
Husb. — Husbandry
Inc. — Incorporated
Ind. — Industry
Info. — Information
Inst. — Institute
Int. — Interim
Inter. — Interactions
Internat. — International
Interp. — Interpretation
Invent. — Inventory
Irrig. — Irrigation
J. — Journal
Jan. — January
Lab. — Laboratories
Ltd. — Limited
Man. — Manitoba
Manage. — Management
Mass. — Massachusetts
Med. — Medical, Medicine
Mimeo. — Mimeograph, Mimeographed
Min. — Ministry
Minn. — Minnesota
Monogr. — Monograph, Monographs
Mont. — Montana
Mtg. — Meeting
Mtgs. — Meetings
Mtns. — Mountains
Nat. — Natural, Naturalist
No. — Number
Nos. — Numbers
Ont. — Ontario
Ore. — Oregon
p. — Page
pp. — Pages
Petro. — Petroleum
Physiol. — Physiology
Phytochem. — Phytochemistry
Plan. — Planning
Prep. — Preparation, Prepared
Proc. — Proceedings
Prod. — Production
Proj. — Project, Projects
Prov. — Province, Provincial
Pub. — Publication, Published, Publisher(s)
Quar. — Quarterly
Que. — Quebec
Rec. — Recreation
Reforest. — Reforestation
Reg. — Region, Regional
Rehab. — Rehabilitation
Rep. — Report
Res. — Research, Resources
Rev. — Review
Sask. — Saskatchewan
Sci. — Science, Scientific
Sec. — Secretariat, Secretary
Sect. — Section
Sem. — Seminar
Serv. — Service, Services
Sess. — Session, Sessions
Soc. — Society
Sta. — Station
Stat. — Statistical, Statistics
Stock. — Stockmen's
Stud. — Studies
Surv. — Survey, Surveyor, Surveys
Symp. — Symposium
Tech. — Technical
Terr. — Terrestrial
Trans. — Transactions, Transportation
Univ. — University
Util. — Utilization
Veg. — Vegetative

Vet. — Veterinary
Vol. — Volume
W. — West
Wash. — Washington
West. — Western
Wildl. — Wildlife
Work. — Working
Zoo. — Zoology

2. Abbreviations of Compound Terms

APD — Assessment and Planning Division
ARDA — Agricultural and Rural Development Act
ARDSA — Agricultural and Rural Development Subsidiary Agreement
B.A. — Bachelor of Arts
B.C. — British Columbia
BCIT — British Columbia Institute of Technology
B.Comm. — Bachelor of Commerce
B.S.F — Bachelor of Science Forestry
B.Sc. — Bachelor of Science
CLI — Canada Land Inventory
DATE — Demonstration of Agricultural Technology and Economics
M.A. — Master of Arts
M.B.A. — Master of Business Administration
M.F. — Master of Forestry
M.Sc. — Master of Science
M.Sc.(Appl.) Master of Applied Science
N. Amer. — North American
NOR — Northern Research Station
NRG — National Research Grant
N.T.S — National Topographic Series
NW — Northwest
Ph.D. — Doctorate of Philosophy
RAB — Resource Analysis Branch
SFU — Simon Fraser University
Univ. B.C. — University of British Columbia
U.S.A. — United States of America
WHO — World Health Organization

APPENDIX 10 C

Bibliographic Sources

10 C Bibliographic Sources

Agriculture Canada Publication
Agriculture Canada Report
Agriculture Canada Research Branch Report
Agriculture Canada Research Highlights
Agriculture Canada Research Roundup
Agricultural History
Agricultural Institute of Canada: Annual Meeting
Agricultural Institute Review
Agronomy Journal
Arctic and Alpine Research
Beef Cattle Science Handbook
Biennial Workshop in the Plant Sciences
British Columbia Department of Agriculture Bulletin
British Columbia Department of Agriculture Fertilizer Guides
British Columbia Department of Agriculture Field Crops Branch — Soil Series
British Columbia Department of Agriculture Forage Crop Recommendations
British Columbia Department of Agriculture Livestock Branch Circular
British Columbia Department of Agriculture Publication
British Columbia Department of Lands Bulletin
British Columbia Department of Mines and Petroleum Resources Bulletin
British Columbia Entomology
British Columbia Fish and Wildlife: Wildlife Management Report
British Columbia Forest Service Research Note
British Columbia Historical Quarterly
British Columbia Medical Journal
British Columbia Ministry of Agriculture Field Crop Facts — Weed Control Series
British Columbia Ministry of Agriculture and Food Engineering Notes
British Columbia Ministry of Agriculture Publication
British Columbia Ministry of Environment Bulletin
British Columbia Ministry of Environment Technical Paper
British Columbia Ministry of Forests Land Management Handbook
British Columbia Ministry of Forests Land Management Report
British Columbia Ministry of Recreation and Conservation Fish and Wildlife Bulletin
British Columbia Provincial Museum Occassional Paper Series
British Columbia Provincial Museum of Natural History Anthropological Report
British Columbia Soil Survey
Brittonia
Bulletin of the Torrey Botanical Club
Canada Agriculture
Canada Agriculture Insect Pest Review
Canada Department of Agriculture Annual Report
Canada Department of Agriculture Canadex: Weed Control
Canada Department of Agriculture Monograph
Canada Department of Agriculture Publication
Canada Department of Agriculture Research Report
Canada Department of Agriculture Technical Bulletin
Canada Department of Forestry Bulletin
Canada Department of Mines and Technical Surveys Geographical Bulletin
Canada Department of Mines and Technical Surveys Memoir
Canadian Cattlemen
Canadian Entomologist
Canadian Farm Economics
Canadian Field Naturalist
Canadian Geographer
Canadian Geographical Journal
Canadian Journal of Animal Science
Canadian Journal of Botany
Canadian Journal of Comparative Medicine
Canadian Journal of Comparative Medicine and Veterinary Science
Canadian Journal of Forest Research
Canadian Journal of Genetics and Cytology
Canadian Journal of Plant Science
Canadian Journal of Research
Canadian Journal of Soil Science
Canadian Journal of Zoology
Canadian Plant Diseases Survey
Canadian Society of Agronomy Journal Proceedings
Canadian Symposium on Remote Sensing
Canadian Veterinary Journal
Cattlemen
Cattlemen's Conference Proceedings
Country Life in British Columbia
Crops and Soils Magazine
Davidsonia
Dominion of Canada Department of Agriculture Bulletin
Down to Earth
Ecological Monographs
Ecology
Ecology of Western North America
Environmental Entomology
Exploratory Agriculture
Forage Notes
Forest Chronicles
Journal of Agricultural Science
Journal of Animal Science
Journal of Apicultural Research
Journal of Applied Ecology
Journal of Applied Meteorology
Journal of the Arnold Arboretum
Journal of British Grasslands Society
Journal of the Entomological Society of British Columbia
Journal of Forestry
Journal of Medical Entomology
Journal of Range Management
Journal of Wildlife Management
Nature
Northwest Science
Phytochemistry
Phytocoenologia
Plant, Cell and Environment
Plant Physiology
Proceedings Entomological Society of British Columbia
Proceedings International Congress of Entomology
Proceedings of the International Grassland Congress
Proceedings International Rangeland Congress
Quaternary Research
Rangelands
Rangeman's Journal
Research for Farmers
Rhodora
Scientific Agriculture

Soil Horizons
Soil Science Society of America Proceedings Stockmen's Conference Proceedings
Sulphur Institute Journal
Syesis
Transactions of the British Columbia Natural Resources Conference Transactions of the Northern Wild Sheep Council
Transactions of the Royal Society of Canada
University of British Columbia Botanical Series
University of British Columbia Garden Technical Bulletin
Vegetatio
Veterinary Medical Review
Western Reforestation Technical Sessions Western Forest Conference
Western Wildlands
Wildlife Review

APPENDIX 10 D

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allelopathy — 284, 286, 337, 338, 388, 408, 437, 439.

alpine — 1, 6, 17, 49, 52, 60, 61, 68, 70, 81, 103, 125, 136, 140, 141, 143, 174, 176, 201, 217, 223, 224, 254, 255, 257, 262, 269, 274, 306, 307, 369, 397, 412, 489, 504, 514, 584, 591, 596, 633, 642, 643, 645, 675, 676, 677, 679, 697, 742, 744, 746, 754, 755, 845, 847, 858, 888, 1053, 1799, 1830, 1951, 2573, 2630, 3210, 3802.

alsike clover — 28, 34, 38, 43, 46, 47, 48, 51, 57, 87, 101, 139, 154, 193, 205, 245, 258, 281, 314, 315, 316, 317, 319, 421, 1184, 1185, 1402, 1412, 1880, 1936, 2038, 2163, 2185, 2204, 2206, 2209, 2326, 2382, 2697, 2699.

animal behavior — 225, 242, 303, 442, 456, 616, 617, 823, 1215, 1264, 1286, 1453, 1586, 1829, 1963, 1999.

arrowgrass — 160, 163, 308, 779, 824, 1090, 1419.

autecology — (see plant autecology).

balsamroot — 110, 219, 247, 248, 362, 559, 608, 676, 677, 998, 1764.

barley — 39, 1472, 1525, 1564.

beaked sedge — 153, 397, 914, 1832.

beardless wheatgrass — 117, 384, 386, 387, 391, 543, 578, 1236, 1241, 1899.

behavior — (see animal behavior).

bentgrass — 315, 316, 317, 318, 319, 2039, 2185.

bibliography — 72, 488, 2804, 3210, 3221, 3709, 3741, 3743, 3746, 3778.

big game — 4, 6, 22, 61, 68, 69, 70, 71, 76, 81, 90, 136, 140, 146, 216, 222, 225, 242, 283, 292, 303, 305, 332, 333, 334, 336, 404, 405, 440, 442, 450, 456, 464, 471, 477, 478, 479, 486, 487, 492, 493, 494, 495, 500, 508, 523, 548, 549, 567, 578, 584, 585, 616, 617, 699, 772, 823, 868, 879, 886, 888, 891, 892, 893, 894, 895, 914, 978, 996, 998, 1014, 1021, 1036, 1050, 1069, 1117, 1162, 1214, 1215, 1217, 1245, 1249, 1261, 1266, 1286, 1289, 1290, 1453, 1539, 1561, 1629, 1630, 1643, 1711, 1733, 1796, 1799, 1800, 1829, 1830, 1893, 1913, 1922, 1941, 1963, 1964, 1999, 2336, 2573, 2654, 2992, 3050, 3058, 3062, 3127, 3128, 3160, 3161, 3169, 3175, 3210, 3212, 3213, 3214, 3215, 3216, 3220, 3221, 3223, 3247.

big sagebrush — 17, 49, 71, 83, 84, 110, 111, 123, 133, 142, 143, 146, 148, 149, 169, 170, 200, 247, 273, 277, 287, 292, 293, 301, 302, 321, 333, 342, 366, 382, 387, 420, 440, 442, 443, 530, 543, 559, 563, 607, 608, 609, 616, 676, 677, 823, 998, 1236, 1241, 1286, 1290, 1539, 1899, 1963, 1999, 2575, 2699, 2770, 2786, 3069, 3081.

biological control — 21, 49, 52, 157, 284, 286, 330, 362, 410, 1642, 1828, 2575, 2584, 2616, 2627, 2650, 2673, 2674, 2675, 2676, 2677, 2679, 2754, 2755, 2756, 2769, 2770, 2786, 2795, 2796, 2797, 2798, 2827, 2829, 2831, 3031.

birdsfoot trefoil — 3, 50, 51, 53, 87, 180, 193, 205, 245, 314, 317, 321, 421, 1468, 1469, 2163, 2170, 2204, 2209, 2326.

bitterbrush — 110, 133, 332, 403, 477, 559, 892.

black fly — 48, 1611, 1619, 1629, 1725.

bloat — 38, 306, 1090, 1127, 1200, 1209, 1267, 1468, 1469, 1470, 1471, 1494, 1502, 1505, 1506, 1606, 1640, 1645, 1646, 1647, 1657, 1669, 1681, 1682, 1685, 1689, 1693.

bluebunch wheatgrass — 4, 6, 17, 23, 25, 26, 48, 49, 52, 62, 69, 71, 83, 84, 90, 110, 111, 117, 123, 133, 142, 143, 146, 147, 148, 149, 150, 155, 158, 171, 174, 181, 182, 186, 200, 216, 220, 238, 247, 248, 251, 273, 277, 287, 290, 292, 293, 302, 306, 333, 334, 335, 336, 362, 366, 368, 379, 383, 385, 386, 387, 404, 405, 439, 440, 442, 443, 445, 463, 464, 477, 478, 480, 482, 486, 487, 529, 530, 543, 548, 559, 563, 607, 608, 609, 616, 667, 675, 676, 679, 791, 823, 892, 987, 998, 1236, 1241, 1245, 1286, 1539, 1800, 1829, 1830, 1954, 1999, 3128, 3749.

bluegrass — 62, 87, 315, 316, 318, 319, 2039, 2185.

bluejoint — (see Canada reedgrass).

boron — 3, 31, 35, 39, 40, 46, 93, 183, 184, 193, 265, 266, 315, 316, 2132.

bovine pulmonary emphysema — 1419, 1604, 1615, 1707, 1708, 1727, 1729.

breeding — 1, 2, 29, 46, 47, 81, 193, 195, 234, 319, 362, 389, 390, 422, 431, 1182, 1220, 1265, 1267, 1296, 1297, 1298, 1299, 1301, 1308, 1309, 1311, 1313, 1314, 1315, 1317, 1318, 1319, 1320, 1321, 1323, 1327, 1329, 1330, 1331, 1332, 1333, 1334, 1337, 1338, 1339, 1340, 1341, 1344, 1345, 1346, 1347, 1348, 1349, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1402, 1421, 1502, 1506, 1564, 1566, 1678, 1687, 2038, 2039, 2060, 2146, 2152, 2154, 2171, 2177.

bromegrass — 121, 154, 244, 315, 318, 421, 2166.

browse — 70, 283, 303, 306, 332, 440, 450, 494, 530, 578, 617, 784, 789, 887, 888, 892, 896, 978, 1162, 1222, 1245, 1249, 1261, 1289, 1539, 1796, 1799, 1893, 1941, 1963, 1964, 1999, 3181.

brush control — 4, 37, 49, 154, 362, 1255, 1597, 2110, 2112, 2601, 2609.

calcium — 93, 265, 266, 267, 422, 1506, 1508, 1539, 1572, 1689, 1693, 2075, 2348.

California bighorn sheep — 71, 76, 81, 90, 216, 225, 242, 292, 333, 334, 336, 426, 440, 456, 478, 479, 486, 487, 548, 549, 567, 868, 879, 886, 891, 894, 998, 1050, 1799, 1800, 1913, 2573, 2992, 3050, 3127, 3128, 3169, 3210, 3220.

Canada bluegrass — 51, 477, 560.

Canada reedgrass — 153.

Canada thistle — 330, 1187, 1764, 2587, 2612, 2626, 2699, 2786, 3340.

Caribou — 6, 16, 23, 25, 26, 30, 31, 32, 39, 50, 51, 53, 54, 58, 62, 63, 67, 71, 75, 81, 92, 103, 104, 127, 128, 129, 130, 131, 132, 162, 185, 217, 218, 241, 242, 244, 254, 256, 257, 258, 260, 263, 270, 276, 278, 288, 289, 290, 291, 292, 314, 333,

334, 335, 336, 399, 412, 449, 479, 549, 552, 585, 698, 699, 730, 734, 761, 764, 793, 853, 857, 858, 868, 873, 879, 886, 897, 914, 951, 952, 978, 994, 1005, 1012, 1046, 1062, 1076, 1185, 1208, 1270, 1336, 1389, 1423, 1440, 1454, 1459, 1486, 1498, 1539, 1596, 1636, 1663, 1759, 1832, 1869, 1934, 1935, 2017, 2145, 2149, 2198, 2206, 2213, 2296, 2373, 2573, 3072, 3073, 3161, 3169, 3220, 3286, 3388, 3425, 3687, 3732.

caribou — 66, 866, 914, 1629, 1799.

carrying capacity — 59, 81, 148, 149, 193, 362, 404, 495, 545, 553, 633, 699, 845, 892, 895, 898, 951, 952, 954, 1005, 1046, 1213, 1241, 1423, 1449, 1459, 1486, 1532, 1577, 1830, 1865, 1921, 1951, 1993.

cattle — 1, 3, 4, 9, 24, 30, 32, 36, 37, 47, 52, 54, 57, 59, 75, 76, 81, 87, 99, 145, 146, 153, 155, 156, 157, 161, 163, 166, 180, 195, 202, 211, 242, 243, 263, 276, 290, 291, 301, 308, 321, 325, 326, 332, 333, 334, 336, 356, 357, 358, 367, 375, 397, 401, 426, 430, 442, 457, 461, 464, 471, 477, 478, 479, 486, 487, 494, 495, 500, 530, 553, 567, 616, 617, 696, 790, 795, 823, 849, 850, 868, 892, 895, 914, 951, 952, 954, 958, 994, 1005, 1021, 1036, 1050, 1089, 1090, 1093, 1099, 1107, 1116, 1118, 1119, 1120, 1121, 1123, 1124, 1125, 1127, 1147, 1161, 1174, 1176, 1188, 1189, 1191, 1194, 1204, 1207, 1206, 1209, 1210, 1211, 1212, 1213, 1214, 1217, 1219, 1236, 1241, 1245, 1249, 1257, 1260, 1261, 1264, 1265, 1266, 1267, 1269, 1277, 1278, 1286, 1289, 1290, 1293, 1296, 1297, 1298, 1299, 1300, 1301, 1303, 1305, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1329, 1330, 1331, 1332, 1333, 1334, 1336, 1337, 1338, 1339, 1340, 1341, 1344, 1345, 1346, 1347, 1348, 1349, 1351, 1352, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1364, 1365, 1376, 1377, 1379, 1380, 1381, 1382, 1385, 1387, 1389, 1394, 1398, 1399, 1400, 1401, 1408, 1412, 1413, 1424, 1426, 1429, 1431, 1434, 1435, 1436, 1438, 1439, 1440, 1445, 1449, 1453, 1454, 1456, 1457, 1459, 1462, 1463, 1465, 1467, 1468, 1469, 1470, 1471, 1472, 1475, 1476, 1477, 1478, 1486, 1492, 1493, 1494, 1495, 1496, 1497, 1499, 1500, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1517, 1518, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1533, 1535, 1537, 1539, 1540, 1541, 1542, 1545, 1548, 1549, 1551, 1552, 1553, 1554, 1555, 1557, 1558, 1559, 1562, 1572, 1574, 1575, 1576, 1577, 1579, 1580, 1581, 1582, 1583, 1585, 1586, 1587, 1591, 1596, 1602, 1603, 1604, 1606, 1609, 1612, 1613, 1615, 1620, 1621, 1628, 1629, 1630, 1631, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1643, 1645, 1646, 1651, 1653, 1657, 1663, 1668, 1669, 1673, 1674, 1681, 1682, 1685, 1689, 1693, 1696, 1699, 1700, 1701, 1702, 1706, 1707, 1708, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1720, 1721, 1724, 1725, 1727, 1728, 1729, 1730, 1732, 1733, 1737, 1796, 1799, 1913, 1941, 2026, 2198, 2262, 2296, 2314, 2354, 2618, 2667, 2685, 2948, 3003, 3031, 3039, 3169, 3194, 3259, 3263, 3264, 3271, 3274, 3282, 3286, 3289, 3290, 3294, 3296, 3299, 3306, 3323, 3325, 3329, 3338, 3339, 3340, 3358, 3370, 3388, 3390, 3392, 3393, 3405, 3407, 3408, 3410, 3420, 3434, 3437, 3450, 3457, 3458, 3460, 3465, 3469, 3470, 3491, 3497, 3498, 3499, 3501, 3502, 3579, 3737, 3744, 3764.

cattle grub — 49, 52, 321, 1119, 1541, 1542, 1611, 1714, 1715, 1717, 1721, 1724, 1725, 3003.

cheatgrass — 23, 143, 146, 171, 247, 248, 293, 362, 404, 445, 477, 480, 482, 487, 494, 543, 607, 608, 609, 675, 676, 679, 892, 1036, 1241, 2663, 2695.

chemical control — 20, 21, 49, 51, 52, 99, 100, 101, 193, 284, 286, 321, 330, 362, 374, 409, 418, 956, 1089, 1200, 1541, 1642, 1714, 1715, 1718, 1721, 1724, 1764, 1779, 1828, 1835, 1837, 1937, 2075, 2101, 2145, 2240, 2241, 2272, 2316, 2584, 2587, 2588, 2589, 2606, 2610, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2625, 2626, 2627, 2628, 2629, 2648, 2649, 2650, 2674, 2683, 2695, 2697, 2699, 2701, 2702, 2703, 2769, 2786, 2806, 3039, 3064, 3102.

chlorine — 93.

chokecherry — 362, 2699.

chrysomelid beetle — 1611, 2575, 2770, 3069, 3081.

classification — 6, 9, 16, 17, 18, 22, 25, 26, 28, 41, 49, 52, 55, 60, 61, 64, 68, 69, 70, 77, 78, 86, 92, 103, 104, 120, 133, 134, 142, 143, 147, 150, 174, 176, 177, 194, 199, 208, 209, 210, 217, 218, 221, 227, 246, 247, 248, 251, 252, 277, 279, 282, 283, 287, 297, 321, 347, 350, 362, 426, 447, 449, 458, 462, 470, 477, 478, 482, 488, 490, 514, 524, 525, 531, 532, 534, 552, 553, 555, 559, 569, 574, 589, 602, 607, 608, 609, 764, 845, 847, 853, 855, 863, 887, 888, 892, 893, 912, 914, 996, 1003, 1012, 1037, 1038, 1050, 1076, 1079.

climate — 1, 2, 3, 4, 5, 6, 9, 14, 15, 16, 17, 24, 25, 26, 28, 29, 30, 32, 33, 34, 36, 37, 41, 45, 47, 49, 50, 51, 53, 54, 55, 56, 57, 59, 61, 62, 63, 64, 65, 69, 70, 71, 72, 75, 77, 78, 80, 81, 85, 86, 87, 88, 89, 90, 92, 95, 98, 99, 103, 104, 105, 107, 109, 110, 111, 113, 114, 115, 116, 118, 119, 120, 125, 126, 127, 128, 129, 130, 131, 132, 134, 135, 136, 140, 142, 143, 146, 147, 148, 149, 150, 151, 152, 153, 154, 160, 161, 162, 163, 164, 165, 167, 170, 171, 172, 173, 176, 177, 180, 189, 191, 193, 194, 195, 200, 201, 202, 208, 209, 210, 211, 214, 215, 216, 217, 218, 219, 220, 221, 222, 225, 228, 229, 230, 231, 232, 233, 237, 238, 239, 240, 241, 242, 243, 246, 247, 248, 249, 250, 251, 253, 254, 256, 257, 260, 261, 274, 277, 279, 281, 282, 284, 286, 287, 290, 291, 296, 297, 301, 302, 303, 304, 305, 306, 307, 2827.

clover — 180, 315, 316, 318, 319, 617, 1245, 1606, 2039, 2170, 2272.

Columbia needlegrass — 4, 9, 23, 62, 463, 478, 482, 487, 494, 548, 1172, 1800, 3128.

community pasture — 9, 37, 87, 195, 281, 426, 699, 742, 850, 858, 1050, 1098, 1099, 1110, 1195, 1398, 1408, 1417, 1421, 1477, 1561, 1596, 1597, 3259, 3513, 3578.

companion crops — 193, 2166, 2310.

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condition and trend — 4, 9, 25, 36, 49, 69, 81, 111, 148, 149, 180, 181, 191, 199, 216, 217, 218, 219, 241, 247, 261, 283, 335, 336, 359, 362, 399, 440, 471, 477, 478, 480, 482, 486, 508, 529, 549, 553, 555, 563, 575, 698, 761, 775, 840, 855, 873, 879, 886, 894, 898, 950, 951, 952, 954, 956, 974, 978, 985, 998, 1005, 1021, 1036, 1046, 1799, 2724.

copper — 3, 93, 139, 175, 178, 187, 266, 422, 1365, 1501, 1503, 1507, 1508, 1509, 1510, 1511, 1512, 1535, 1537, 2132, 2348.

corn — 40, 46, 51, 99, 101, 272, 314, 321, 431, 783, 790, 1209, 1472, 1509, 1513, 1522, 1535, 1551, 1552, 1554, 1577, 1579, 1582, 1764, 2074, 2101, 2138, 2145, 2177, 2192, 2244, 2262, 2268, 2272, 2296, 2301, 2400, 2401, 2648, 2703.

couchgrass — 1784, 2241, 2615.

cover — (see plant cover).

creeping foxtail — 314, 1184, 1185, 1195.

creeping red fescue — 51, 53, 57, 87, 121, 154, 193, 195, 281, 401, 421, 560, 675, 676, 679, 1880, 2204, 2209.

crested wheatgrass — 4, 9, 21, 33, 34, 42, 49, 50, 51, 53, 84, 144, 152, 271, 299, 300, 314, 321, 327, 366, 368, 421, 439, 445, 530, 675, 676, 679, 791, 795, 956, 1172, 1185, 1195, 1236, 1241, 1245, 1412, 1422, 1545, 1750, 1751, 1764, 1837, 1860, 1930, 1936, 1961, 2069, 2108, 2124, 2204, 2209.

cropland — 1, 2, 3, 5, 14, 27, 28, 29, 31, 32, 33, 34, 35, 36, 39, 43, 44, 45, 46, 47, 49, 50, 51, 53, 54, 56, 57, 73, 77, 78, 91, 96, 97, 99, 101, 102, 106, 121, 122, 127, 128, 129, 130, 131, 132, 173, 175, 178, 184, 185, 193, 195, 203, 204, 205, 208, 209, 211, 215, 234, 244, 245, 253, 256, 261, 265, 266, 267, 270, 272, 296, 298, 301, 304, 308, 312, 314, 315, 316, 317,

318, 319, 321, 328, 330, 346, 355, 362, 401, 421, 422, 427, 429, 430, 431, 495, 523, 567, 977, 1037, 1038, 1123, 1184, 1187, 1188, 1204, 1209, 1210, 1349, 1377, 1385, 1402, 1422, 1498, 1500, 1508, 1525, 1527, 1535, 1550, 1554, 1559, 1577, 1582, 1586, 1587, 1596, 1597, 1647, 1689, 1764, 1831, 2017, 2021, 2026, 2031, 2038, 2039, 2055, 2060, 2061, 2074, 2075, 2091, 2093, 2101, 2108, 2109, 2113, 2124, 2125, 2129, 2130, 2131, 2132, 2138, 2143, 2144, 2145, 2146, 2149, 2166, 2171, 2177, 2192, 2204, 2206, 2213, 2240, 2241, 2244, 2247, 2248, 2268, 2272, 2296, 2310, 2313, 2314, 2316, 2326, 2336, 2337, 2338, 2347, 2348, 2373, 2382, 2584, 2599, 2606, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2621, 2622, 2627, 2629, 2648, 2697, 2701, 2702, 2703, 3102, 3122, 3259, 3803.

cultural control — 20, 284, 286, 330, 409, 418, 1200, 2594, 2606, 2627, 2628, 2629, 2649, 2650, 2703, 2724.

death camas — 81, 559, 676, 677, 755, 1419, 1609.

diet — (see livestock diet and wildlife diet).

diffuse knapweed — 21, 52, 284, 285, 286, 301, 337, 338, 388, 392, 408, 409, 410, 418, 434, 437, 439, 452, 609, 676, 677, 1079, 1090, 1764, 1779, 1828, 1837, 2316, 2584, 2594, 2598, 2610, 2616, 2650, 2655, 2673, 2674, 2675, 2676, 2677, 2683, 2695, 2699, 2754, 2755, 2786, 2795, 2796, 2797, 2798, 2808, 2827, 2899, 2958, 3070.

distribution — 242, 335, 336, 486, 500, 578, 823, 879, 1453, 3220.

Douglas-fir — 6, 17, 25, 26, 67, 69, 75, 76, 84, 104, 105, 109, 111, 119, 123, 127, 131, 135, 137, 142, 143, 147, 161, 162, 164, 165, 167, 174, 186, 220, 239, 241, 246, 249, 251, 273, 292, 302, 333, 336, 356, 361, 363, 375, 399, 404, 405, 442, 463, 464, 477, 494, 498, 543, 545, 589, 609, 616, 617, 699, 789, 793, 800, 823, 954, 958, 1036, 1207, 1231, 1286, 1290, 1577, 1759, 1796, 1829, 1880, 1949, 1963, 1964, 3181.

downy brome — (see cheatgrass).

drainage — 20, 38, 122, 865.

economics — (see forage economics, livestock economics, farm economics and marketing).

elk — 68, 69, 76, 222, 292, 305, 464, 471, 486, 494, 495, 500, 567, 584, 892, 893, 1036, 1215, 1217, 1249, 1453, 1539, 1561, 1799, 3194, 3210.

equipment — (see forage equipment, livestock equipment, and range improvement equipment).

erosion — 36, 77, 78, 91, 145, 199.

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APPENDIX 10 E

Plant and Animal Species List

Common Name — **Scientific Name**

I PLANTS

Grasses and Grass-like

Barley — *Hordeum* sp.
Beaked sedge — *Carex rostrata*
Beardless wheatgrass — *Agropyron inerme*
Bentgrass — *Agrostis* sp.
Bluebunch wheatgrass — *Agropyron spicatum*
Bluegrass — *Poa* sp.
Bromegrass — *Bromus* sp.
Canada bluegrass — *Poa compressa*
Canada reedgrass — *Calamagrostis canadensis*
Cheatgrass — *Bromus tectorum*
Columbia needlegrass — *Stipa columbiana*
Corn — *Zea mays*
Couchgrass — *Agropyron repens*
Creeping foxtail — *Alopecurus arundinaceus*
Creeping red fescue — *Festuca rubra*
Crested wheatgrass — *Agropyron cristatum*
Idaho fescue — *Festuca idahoensis*
Intermediate wheatgrass — *Agropyron intermedium*
Italian ryegrass — *Lolium multiflorum*
Junegrass — *Koeleria cristata*
Kentucky bluegrass — *Poa pratensis*
Meadow fescue — *Festuca elatior*
Meadow foxtail — *Alopecurus pratensis*
Needle-and-thread — *Stipa comata*
Orchardgrass — *Dactylis glomerata*
Perennial ryegrass — *Lolium perenne*
Pinegrass — *Calamagrostis rubescens*
Pubescent wheatgrass — *Agropyron trichophorum*
Red fescue — *Festuca rubra*
Redtop — *Agrostis alba*
Reed canarygrass — *Phalaris arundinacea*
Rough fescue — *Festuca scabrella*
Russian wildrye — *Elymus junceus*
Ryegrass — *Elymus* sp.
Sedge — *Carex* sp.
Smooth brome — *Bromus inermis*
Streambank wheatgrass — *Agropyron riparium*
Tall fescue — *Festuca arundinacea*
Timothy — *Phleum pratense*

Forbs

Alfalfa — *Medicago sativa*
Alsike clover — *Trifolium hybridum*
Arrowgrass — *Triglochin maritimum*
Balsamroot — *Balsamorhiza sagittata*
Birdsfoot trefoil — *Lotus corniculatus*
Canada thistle — *Cirsium arvense*
Clover — *Trifolium* sp.
Death camas — *Zygadenus venenosus*
Diffuse knapweed — *Centaurea diffusa*
Houndstongue — *Cynoglossum officinale*
Knapweed — *Centaurea* sp.
Larkspur — *Delphinium bicolor*
Red clover — *Trifolium pratense*
Russian knapweed — *Centaurea repens*
Sainfoin — *Onobrychis viciaefolia*
Spotted knapweed — *Centaurea maculosa*
Sweetclover — *Melilotus* sp.
Timber milkvetch — *Astragalus miser*
Water-hemlock — *Cicuta douglasii*
White clover — *Trifolium repens*
Zig-zag clover — *Trifolium medium*

Shrubs and Trees

Big sagebrush — *Artemisia tridentata*
Bitterbrush — *Purshia tridentata*
Chokecherry — *Prunus virginiana*
Douglas-fir — *Pseudotsuga menziesii*
Lodgepole pine — *Pinus contorta*
Pasture sage — *Artemisia frigida*
Saskatoon — *Amelanchier alnifolia*
Snowberry — *Symphoricarpos* sp.
Willow — *Salix* sp.
Yellow pine — *Pinus ponderosa*

II VERTEBRATES

California bighorn sheep — *Ovis canadensis californiana*
Caribou — *Rangifer tarandus*
Cattle — *Bos taurus*
Elk — *Cervus canadensis*
Horse — *Equus caballus*
Moose — *Alces alces andersoni*
Mule deer — *Odocoileus hemionus*
Rocky mountain bighorn sheep — *Ovis canadensis canadensis*
Sheep (domestic) — *Ovis aries*
Whitetailed deer — *Odocoileus virginianus ochrourus*

III INVERTEBRATES

Black fly — *Simulium* sp.
Cattle grub — *Hypoderma* sp.
Chrysomelid beetle — *Trirhabda pilosa*
Face fly — *Musca autumnalis*
Gall fly — *Urophora* sp.
Grasshopper — *Orthoptera:Acrididae*
Hornfly — *Haematobia irritans*
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Wikeem, B., R.F. Newman and L.W. Johnsen. 1985. A bibliography on range, forages and livestock management in British Columbia. B.C. Min. of For. Land management report No. 32.

Page	Citation No.(s)	Error
iv	N/A	E. Jensen = E. Jenson
v	N/A	section 1C. Synecology starts on page 11 not 12.
	73, 2250, 2429	River. = delete
	330	pp. J110. = pp. J1-10
	452	append: "In Proc. Knapweed Symp., B.C. Plant Sci. Lead Comm., Kamloops, B.C. p. 286."
	790, 2455	6877 = 68-77
	1215	6382 = 63-82
	1391	17 p. 6 p. = 17 p. (delete 6 p.)
	1668	60:319. = 60:319-325
	1677	p. 325. = (delete)
	1860	2630 = 26-30
	1898	B.C. p (Mimeo.) = B.C. (Mimeo.)
43	N/A	14a. Range ... = 4a. Range ....
43-49	N/A	14a. = 4a. (change page heading)
	2205	197475 = 1974-75
	2310, 2500	164173 = 164-173
	2795, 2964	see dheads = seed heads
	2797, 2966, 3108	quadri-fasciata = quadrifasciata
	2806	14143 = 141-143
	3011	4:1411-46 = 4:141-146

Page	Citation No.(s)	Error
	3077	19281961 = 1928-1961
	3153	1013 = 10-13
95	N/A	Rangelang = Rangeland
95	N/A	an dretrieving = and retrieving
100	N/A	should read: M.Sc.(Appl.) - Master of applied science.
119	N/A	should read: Penney, Douglas C. - 192.